

Theory 3 Review

1. ERD	8. Primary Key
2. Entity	9. Technical Key
3. Attribute	10. Composite / Concatenated Key
4. Atomic Attribute	11. Foreign Key
5. Composite Attribute	12. Relationship
6. Stored Attribute	
7. Derived Attribute	

Theory 3 Review Answers

1. ERD	8. Primary Key
❖ The Entity Relationship Diagram is a tool (model) that organizes and documents the logical design of a database	❖ Attribute, or group of attributes, that uniquely identifies each instance of an entity
2. Entity	9. Technical Key
❖ A person, place, thing, or concept that is used in the business context of the application and for which data is collected	❖ Arbitrary attribute created solely for the purpose of acting as the primary key.
3. Attribute	10. Composite / Concatenated Key
❖ A piece of data that describes an entity	❖ Combination of two or more attributes that act as a key
4. Atomic Attribute	11. Foreign Key
❖ A value that is in its simplest form	❖ A primary key of one entity that appears as an attribute of another entity ❖ Provides a relationship between two entities (parent and child) ❖ Must be the same data type as the primary key, but may have a different name
5. Composite Attribute	12. Relationship
❖ Can be decomposed into two or more atomic attributes	❖ Represents a business association between two entities ❖ Cardinality ➤ Relating of instances between entities ➤ Cardinality Types ▪ One to One ▪ One to Many ▪ Many to Many (logical only, not physically possible)
6. Stored Attribute	
❖ Value is physically stored in the database	
7. Derived Attribute	
❖ Value calculated based on other data and is not stored in the database	

